

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)  Sheet 1 Of 3				<b>Complete if Known</b>	
				Application No.	10/783,201
				Filing Date	February 19, 2004
				First Named Inventor	Ken Museth
				Art Unit	Not Yet Assigned
				Examiner	Not Yet Assigned
				Attorney Docket Number	7975-0050/CIT-3849

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner Signature	<i>Sam Brown</i>	Date Considered	8/14/06
-----------------------	------------------	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this for with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application No.	10/783,201		
		Filing Date	February 19, 2004		
		First Named Inventor	Ken Museth		
		Art Unit	Not Yet Assigned		
		Examiner	Not Yet Assigned		
Sheet	2	of	3	Attorney Docket Number	7975-0050/CIT-3849

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
SB		SETHIAN J. A., A Fast Marching Level Set Method for Monotonically Advancing Fronts, Proc. of the National Academy of Science, vol. 93, 1591-1595.	-
		ZHAO, H.-K. et al, Fast Surface Reconstruction Using the Level Set Method, Proc. 1 <sup>st</sup> IEEE Workshop on Variational and Level Set Methods, p 194-202 (2001)	-
		PERRY, R. et al, Kizamu: A System For Sculpting Digital Characters, Proc. SIGGRAPH 2001, 47-56 (2001)	-
		BREEN, D. et al, A Level-Set Approach for the Metamorphosis of Solid Models, IEEE Trans. On Visualization and Computer Graphics 7, 2, 173-192 (2001)	-
		JOHNSON, D. et al, A Framework For Efficient Minimum Distance Computations, Proc, IEEE International Conf. Robotics and Automation, 3678-3684 (1998)	-
		ARYA, S. et al, An Optimal Algorithm for Approximate Nearest Neighbor Searching in Fixed Dimensions, Journal of the ACM 45, 891-923 (1998)	-
		ARYA, S. et al, Algorithms for Fast Vector Quantization, Proc. IEEE Data Compression Conference, 381-390 (1993)	-
		WHITAKER, R. et al, Segmentation of Biological Volume Datasets Using a Level-Set Framework, Volume Graphics, K. Mueller and A. Kaufman Eds., Springer, Vienna, 249-263 (2001)	-
		WHITAKER, R., A Level-Set Approach to 3D Reconstruction From Range Data, International Journal of Computer Vision 29, 3, 203-231.	-
		WHITAKER, R. et al, Level-Set Models for the Deformation of Solid Objects, Proceedings of the 3rd International Workshop on Implicit Surfaces, Eurographics Association, June 1998, pp. 19-35.	-
		BREEN, D. et al, 3D Scan Conversion of CSG Models Into Distance Volumes, In Volume Graphics, M. Chen, A. Kaufman, and R. Yagel, Eds. Springer, London, 135-138.	-
		WELCH, W. et al, Free-Form Shape Design Using Triangulated Surfaces, In Proc. SIGGRAPH '94, 247-256	-
		TAUBIN, G., A Signal Processing Approach to Fair Surface Design, In Proc. SIGGRAPH '95, 351-358	-

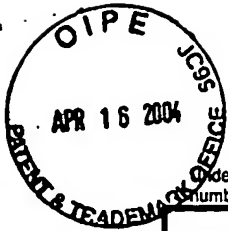
Examiner Signature	/Said Broome/	Date Considered	08/14/2006
--------------------	---------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. include copy of this for with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This for is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

LOSANGELES 120822v1



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application No.	10/783,201
				Filing Date	February 19, 2004
				First Named Inventor	Ken Museth
				Art Unit	Not Yet Assigned
				Examiner	Not Yet Assigned
Sheet	3	of	3	Attorney Docket Number	7975-0050/CIT-3849

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
SB		WYVILL, B. et al, The BlobTree, Warping, Blending and Boolean Operations in an Implicit Surface Modeling System, Computer Graphics Forum 18, 2 (June), 149-158	-
		DESBURN, M. et al, Animating Soft Substances with Implicit Surfaces, In Proc. SIGGRAPH '95 Conference, 287-290	-
		MALLADI, R. et al, Shape Modeling with Front Propagation: A Level Set Approach, IEEE Trans. On Pattern Analysis and Machine Intelligence 17, 2, 158-175	-
		WHITAKER R. et al, Variable-Conductance, Level-Set Curvature for Image Denosing, In Proc. IEEE International Conference on Image Processing, 142-145	-
		DESBURN, M. et al, Active Implicit Surface for Animation, 1998, Graphics Interface, 143-150	-
		FOSTER, N. et al, Practical Animation of Liquids, In Proc. SIGGRAPH 2001, 23-30	-
		KOBELT, L. et al, Interactive Multi-Resolution Modeling on Arbitrary Meshes, In Proc. SIGGRAPH '98, 105-114	-
		FRISKEN S. et al, Adaptively Sampled Distance Fields: A General Representation of Shape for Computer Graphics, In SIGGRAPH 2000 Proceedings, 249-254	-

Examiner Signature	/Said Broome/	Date Considered	08/14/2006
--------------------	---------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. include copy of this for with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.